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NOTICE OF ALLOWANCE AND FEE(S) DUE

26541

7590

04/04/2002

RITTER, LANG & KAPLAN 12930 SARATOGA AE. SUITE D1 SARATOGA, CA 95070 EXAMINER
FAN, CHIEH M

ART UNIT CLASS-SUBCLASS
2634 375-299000

DATE MAILED: 04/04/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/435,293	11/05/1999	GREGORY G. RALEIGH	CISCP601C2	5006

TITLE OF INVENTION: SPATIO-TEMPORAL PROCESSING FOR INTERFERENCE HANDLING

TOTAL CLAIMS	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
18	nonprovisional	NO	\$1280	\$0	\$1280	07/05/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

 Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and mail this form, together with applicable fee(s), to:

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Assistant Commissioner for Patents Washington, D.C. 20231

indicated unless correct maintenance fee notific	ted below or directed of ations.	herwise in Block 1, by (a	specifying a new co	PUBLICATION FEE on of maintenance fee rrespondence address	(if required). Blocks 1 throws will be mailed to the current and/or (b) indicating a sep	ough 4 should be completed nt correspondence address as parate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) 26541 7590 04/04/2002 RITTER, LANG & KAPLAN				Note: The certificate of mailing below can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing.			
12930 SARATOGA AE. SUITE DI SARATOGA, CA 95070				Certificate of Mailing I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above on the date indicated below.			
			ļ			(Depositor's name)	
					-	(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/435,293 TITLE OF INVENTION	11/05/1999 N: SPATIO-TEMPORAI	PROCESSING FOR IN	GREGORY G. RALEI TERFERENCE HAND		CISCP601C2	5006	
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Please check the appropr	riate assignee category or	categories (will not be pri	inted on the patent)	□ individual □ c	orporation or other private g	roup entity U government	
4a. The following fee(s)	are enclosed:	4b.	Payment of Fee(s):				
☐ Issue Fee			A check in the amount	of the fee(s) is enclose	ed.		
☐ Publication Fee		u	Payment by credit card.	Form PTO-2038 is a	ttached.		
☐ Advance Order - # 6	of Copies	De	The Commissioner is hoposit Account Number	ereby authorized by cl	harge the required fee(s), or one enclose an extra copy of this	credit any overpayment, to form).	
The COMMISSIONER application identified ab	OF PATENTS AND TR.	ADEMARKS is requested	to apply the Issue Fee	and Publication Fee (i	f any) or to re-apply any pre	eviously paid issue fee to the	
(Authorized Signature)		(Date)					
other than the applica	nt; a registered attorney	required) will not be according or agent; or the assigne tates Patent and Trademar	e or other party in				
to complete this form and Trademark Office, FORMS TO THIS A	s of the individual case. A	to take 0.2 hours to comp Any comments on the amo nief Information Officer, 1 1. DO NOT SEND FEES S AND THIS FORM T n, D.C. 20231	unt of time required 1				
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09/435,293	3 11/05/1999		GREGORY G. RALEIGH	CISCP601C2	5006	
26541	7590	04/04/2002		EXAMINER		
RITTER, LANG & KAPLAN 12930 SARATOGA AE. SUITE DI			FAN, CHIEH M			
SARATOGA, (ART UNIT	PAPER NUMBER	
UNITED STAT	ES			2634		
				DATE MAILED: 04/04/2002		

Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

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	Application No.	Applicant(s)	₩ <u>/</u>
· Notice of Allowability	09/435,293	RALEIGH ET AL.	N
House of Anomability	Examiner	Art Unit	
	Chieh M Fan	2634	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in 5) or other appropriate commu RIGHTS. This application is si	this application. If not included	
1. This communication is responsive to the amendment filed	<u>d 2/20/02</u> .		
2. The allowed claim(s) is/are 224-231,233-237 and 240-24			
3. The drawings filed on 20 February 2002 are accepted by	the Examiner.		
 Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 		(f) .	
 Certified copies of the priority documents have 			
2. Certified copies of the priority documents have	ve been received in Application	1 No	
Copies of the certified copies of the priority de	ocuments have been received	in this national stage application	from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
 Acknowledgment is made of a claim for domestic priority ι 	under 35 U.S.C. § 119(e) (to a	provisional application).	
(a) ☐ The translation of the foreign language provisional	application has been received.		
6. \prod Acknowledgment is made of a claim for domestic priority $\mathfrak l$	under 35 U.S.C. §§ 120 and/or	r 121 .	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of the subsection of the	rtnis application. THIS THRE	EE-MONTH PERIOD IS NOT EXT	TENDABLE.
 8. ☐ CORRECTED DRAWINGS must be submitted. (a) ☐ including changes required by the Notice of Draftspel 1) ☐ hereto or 2) ☐ to Paper No (b) ☐ including changes required by the proposed drawing 	rson's Patent Drawing Review correction filed, which	r (PTO-948) attached the has been approved by the Exam	niner.
(c) ☐ including changes required by the attached Examine	r's Amendment / Comment or i	in the Office action of Paper No.	·
Identifying indicia such as the application number (see 37 CFR 1 of each sheet. The drawings should be filed as a separate paper	1.84(c)) should be written on the r with a transmittal letter addres	drawings in the top margin (not the seed to the Official Draftsperson.	ne back)
9. ☐ DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR 1	OSIT OF BIOLOGICAL MATER THE DEPOSIT OF BIOLOGICA	RIAL must be submitted. Note AL MATERIAL.	the
Attachment(s)			
I Notice of References Cited (PTO-892) B□ Notice of Draftperson's Patent Drawing Review (PTO-948) b□ Information Disclosure Statements (PTO-1449), Paper No '□ Examiner's Comment Regarding Requirement for Deposit of Biological Material	4☐ Interview S 6☐ Examiner's	informal Patent Application (PTO- Summary (PTO-413), Paper No s Amendment/Comment s Statement of Reasons for Allow	<u> </u>
IIS Patent and Trademark Office			

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Statement of Reasons for Allowance

1. Claims 224-231, 233-237 and 240-244 are allowed and they have been renumbered.

2. The following is an examiner's statement of reasons for allowance:

Claims 225, 226, 236 and 237 are allowable because the prior art of record does not teach or suggest the limitation of "said weightings are chosen based on characterization of a desired signal subspace and an undesired signal subspace".

Claims 229 is allowable because the prior art of record does not teach or suggest an encoder that applies a coding procedure to inputs to said spatial processor, and wherein said coding procedure is applied independently for each of said input bins.

Claims 241 and 242 are allowable because the prior art of record does not teach or suggest an decoder that applies a decoding procedure to outputs to said spatial processor, and wherein said decoding procedure is applied independently for each of said output bins.

Claims 224, 227, 228, 230-235, 238, 239, 243 and 244 are allowable because terminal disclaimer has been filed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Page 3

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chieh M Fan whose telephone number is (703) 305-0198. The examiner can normally be reached on Monday-Friday 8:00AM-5:30PM,

Alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (703) 305-4714. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4750.

Chieh M Fan Examiner Art Unit 2634

cmf March 31, 2002

STEPHEN CHIN
SUPERVISORY PATENT EXAMINEF
TECHNOLOGY CENTER 2600